



(11) Publication number:

6

Generated Document.

PATENT ABSTRACTS OF JAPAN

(21) Application number:

59098420

(51) Intl. Cl.: H01L 21/205 H01L 31/04

(22) Application date:

16.05.84

(30) Priority:

(43) Date of application

publication:

02.12.85

(84) Designated contracting

states:

(71) Applicant: CANON INC

(72) Inventor: NISHIMURA YUKIO

MATSUDA HIROSHI HARUTA MASAHIRO HIRAI YUTAKA

EGUCHI TAKESHI KATAGIRI TAKASHI

(74) Representative:

(54) DEPOSITION FILM FORMING METHOD

(57) Abstract:

PURPOSE: To enable to form a thick deposition film of large area by a method wherein exciting energy is obtained using a specific annular silane compound, and a deposition film containing silicon atoms is formed using low level heat energy.

CONSTITUTION: Pertaining to a method wherein the excitation and decompositional condition of row gas are formed by giving heat energy and, especially, an amorphous silicon (a-Si) deposition film is formed on a specific supporting member, an a-Si deposition film can be formed with low energy level and high film-forming speed using the annular silane compound in the mixed condition with a halogenide as the raw gas to be decomposed by heat energy, which is indicated by a general formula (provided that the n in the above-mentioned formula indicates 3, 4 or 5, and R indicates H or SiH3). Also, the a-Si deposition film which is excellent in uniformity of optical characteristics and stability in quality can be formed. Said deposition film is formed inside a deposition chamber 1.

COPYRIGHT: (C)1985, JPO& Japio

 $\begin{bmatrix} (8iH_2)_n \\ (8iHR) \end{bmatrix}$

